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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

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Date of mailing (day/month/year) 18 December 1998 (18.12.98)	
International application No. PCT/CA98/00373	Applicant's or agent's file reference JJ-9722WO
International filing date (day/month/year) 24 April 1998 (24.04.98)	Priority date (day/month/year) 24 April 1997 (24.04.97)
Applicant PETERSON, John et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
24 November 1998 (24.11.98)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
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Authorized officer

Kari Huynh-Khuong

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PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference JJ-9722W0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/CA 98/ 00373	International filing date (day/month/year) 24/04/1998	(Earliest) Priority Date (day/month/year) 24/04/1997
Applicant DIGITAL SECURITY CONTROLS LTD. et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a **nucleotide and/or amino acid sequence listing** and the international search was carried out on the basis of the sequence listing
 - ☐ filed with the international application.
 - ☐ furnished by the applicant separately from the international application,
 - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - ☐ Transcribed by this Authority
4. With regard to the **title**, ☒ the text is approved as submitted by the applicant
☐ the text has been established by this Authority to read as follows:
5. With regard to the **abstract**,
 - ☒ the text is approved as submitted by the applicant
 - ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.
6. The figure of the **drawings** to be published with the abstract is:
 - Figure No. 1 ☒ as suggested by the applicant. ☐ None of the figures.
 - ☐ because the applicant failed to suggest a figure.
 - ☐ because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 98/00373

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 G08B25/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 G08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 559 270 A (N. V. PHILIPS GLOEILAMPENFABRIEKEN) 8 September 1993 see the whole document	1-4
A	EP 0 488 178 A (MITSUBISHI) 3 June 1992 see abstract	1,2

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

31 August 1998

Date of mailing of the international search report

04/09/1998

Name and mailing address of the ISA

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Authorized officer

Sgura, S

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 98/00373

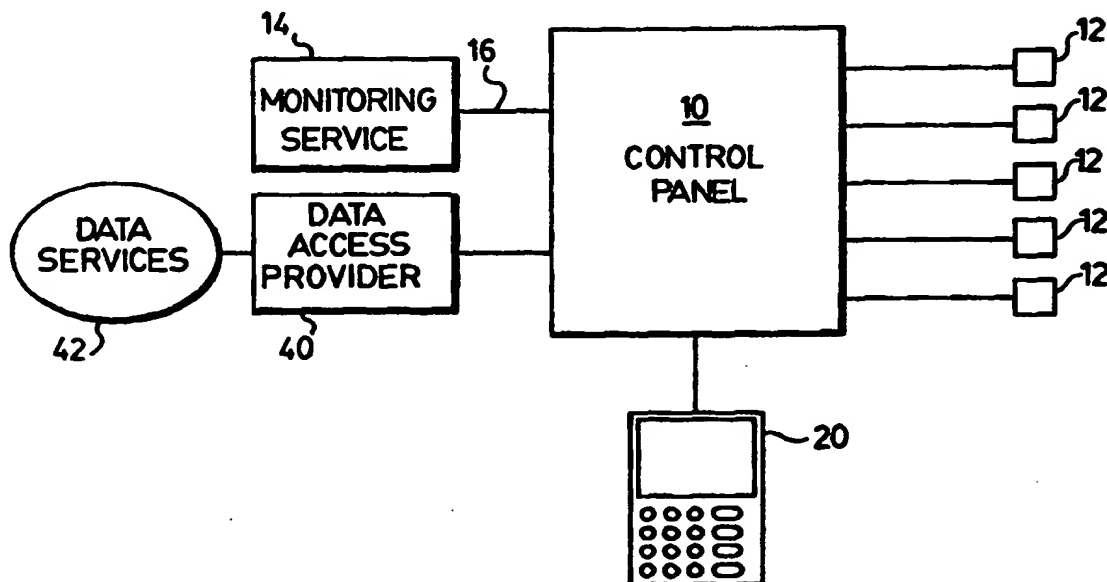
Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 559270	A	08-09-1993	JP 6318114 A	15-11-1994
EP 488178	A	03-06-1992	DE 69110842 D	03-08-1995
			DE 69110842 T	07-03-1996
			JP 5040891 A	19-02-1993
			US 5237305 A	17-08-1993



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G08B 25/14	A1	(11) International Publication Number: WO 98/49663 (43) International Publication Date: 5 November 1998 (05.11.98)
(21) International Application Number: PCT/CA98/00373 (22) International Filing Date: 24 April 1998 (24.04.98) (30) Priority Data: 2,203,591 24 April 1997 (24.04.97) CA (71) Applicant (for all designated States except US): DIGITAL SECURITY CONTROLS LTD. [CA/CA]; 1645 Flint Road, Downsview, Ontario M3J 2J6 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): PETERSON, John [CA/CA]; 1645 Flint Road, Downsview, Ontario M3J 2J6 (CA). PARKER, James [CA/CA]; Apartment 14, 5 Sentinel Road, North York, Ontario M3M 2Y5 (CA). (74) Agents: JOHNSON, Douglas, S. et al.; Suite 301, 133 Richmond Street West, Toronto, Ontario M5H 2L7 (CA).		(81) Designated States: CA, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

(54) Title: HOME AUTOMATION AND SECURITY SYSTEM CONTROLLER



(57) Abstract

The present invention, in one aspect, is directed to a controller for controlling the function of components of a security system. The controller has a touch sensitive screen with a graphical representation of the security system and the components displayed on the screen. The function of the components of the security system are controlled by touching a portion of the screen having the component or security system to be controlled displayed thereon.

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International Application No

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☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

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"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

31 August 1998

Date of mailing of the international search report

04/09/1998

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Sgura, S

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 98/00373

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EP 559270 A	08-09-1993	JP 6318114 A	15-11-1994
EP 488178 A	03-06-1992	DE 69110842 D	03-08-1995
		DE 69110842 T	07-03-1996
		JP 5040891 A	19-02-1993
		US 5237305 A	17-08-1993

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JJ-9722WO		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/CA98/00373	International filing date (day/month/year) 24/04/1998	Priority date (day/month/year) 24/04/1997
International Patent Classification (IPC) or national classification and IPC G08B25/14		
Applicant DIGITAL SECURITY CONTROLS LTD. et al.		

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- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 8 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

 These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 24/11/1998	Date of completion of this report 15. 07. 99
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. (+49-89) 2399-0 Tx: 523656 epmu d Fax: (+49-89) 2399-4465	Authorized officer Heß, D Telephone No. (+49-89) 2399 2046 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/CA98/00373

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

Description, pages:

1-12 as originally filed

Claims, No.:

1-10 as received on 17/06/1999 with letter of 17/06/1999

Drawings, sheets:

1/1 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/CA98/00373

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims 1-10
	No: Claims
Inventive step (IS)	Yes: Claims
	No: Claims 1-10
Industrial applicability (IA)	Yes: Claims 1-10
	No: Claims

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA98/00373

V.

1. Reference is made to the following document:

D1: EP-A-0 559 270

2. The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of claims 1 and 6 does not involve an inventive step in the sense of Article 33(3) PCT.

2.1 Claim 1:

Using the terminology of claim 1, document D1 which is considered as representing the most pertinent state of the art discloses:

A controller for controlling the functions of components (claim 1) of a security system (control room) comprising an input means (such as a mouse, a keyboard, etc.; col.2, l.49-53) for inputting data in response to prompts, a display means (claims 1, 2; Figs. 4, 5) for displaying at least a number of alphanumeric characters (such as the displayed text; Figs.2, 4, 5), the controller interacting with a control panel (left window in Fig.4) to control operation of **the** security system and providing for display of user selectable information (such as the windows "Camera1" to "Camera5"; Fig.5) provided to the control panel (col.9, l.13-23).

Thus, the subject-matter of claim 1 differs from this known controller in that the user selectable information is provided by an external data access provider.

The problem to be solved by the present invention may therefore be regarded as to provide the controller of claim 1 with additional information not obtainable from within the system.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

In view of the posed problem, the feature to provide the control panel with the user selectable information by an external data access provider is considered to be an obvious measure. More specifically, it is considered to be within the scope of the skilled

person to simply exchange an **internal** data access provider (such as a camera mounted on the premises covered by the controller/system) with an external one (such as e.g. a modem link).

Therefore, in view of the fact that the subject-matter of claim 1 is rendered obvious to the skilled person by the disclosure of document D1, claim 1 is not based on an inventive step.

2.2 Claim 6:

Independent claim 6 directed to the security system includes the following features in addition to those of independent claim 1:

- the security system comprises a plurality of detection devices,
- the controller is connected to the control panel, and
- the control panel has a means for connecting to the external data access provider.

The first additional feature is also known from document D1 (claim 1) the security system of which also comprises detection means.

Further, since the left window in Fig.4 of document D1 representing a visual display of the functions of the security system is considered to correspond to the control panel of claims 1 and 6, it is self-evident that the controller is connected to the control panel, in view of the fact that the controller has to control the system functions according to the control operations by the control panel. Hence, this feature is considered to be implicitly disclosed in document D1 (cf. the PCT Guidelines, IV-7.2).

Finally, the third feature that the control panel has a means for connecting to the external data access provider is deemed to directly result from the feature of claim 1 that the control panel is provided with the user selectable information by the external data access provider. Namely, it is considered that this supply with information inevitably requires some connection between the controller and the control panel.

Thus, it is not evident which features of claim 6 should provide the required inventive step.

Consequently, the remarks made above under item 2.1 for independent claim 1 apply

analogously for independent claim 6. Thus, claim 6 is also considered as not to involve an inventive step, Article 33(3) PCT.

3. Dependent claims 2 to 5 and 7 to 10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

3.1 Claims 2, 7:

The features of the stated particular kinds of the user selectable information are deemed to be merely several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.

3.2 Claims 3, 8:

It is already known from document D1 (Fig.4, left window) that the controller also provides for control of home automation functions (such as the telephone tool 118 or the lighting tool 120).

Thus, the subject-matter of claims 3 and 8 is already known from document D1.

3.3 Claims 4, 9:

Document D1 already explicitly discloses that the display means is an LCD display (col.2, l.48/49) capable of displaying graphical data (cf. Figs.4, 5).

Further, it is generally known to the person skilled in the art that the feature of an LED display, as alternatively claimed in any of claims 4 and 9, is an equivalent to the feature of an LCD display and can be interchanged with that feature where circumstances make it desirable.

Consequently, there cannot be seen any contribution in the subject-matter of claims 4 and 9 with regard to the required inventive step.

3.4 Claims 5, 10:

The feature that both the display means and the input means are provided by a touch sensitive screen is a matter of normal design procedure, considering that touch

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA98/00373

sensitive screens are nowadays commonly known in many technical fields. Therefore, the inclusion of this feature in the controller or the security system, respectively, would be an obvious design possibility for the skilled person in an attempt to combine the input means and the display means into a single component.

VII.

1. Any independent claim to be filed is to be drafted in the two-part form based on document D1, as required by Rule 6(3)(b) PCT.

In particular, the Applicant has not provided any reasons why the claims should not be in the two-part form. Neither did he clearly indicate in the description which features of the subject-matter of claims 1 and 6 are already known from document D1; see PCT Guidelines PCT/GL/3 III, 2.3a.

2. The features of the claims are still not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

3. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

4. The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT.

VIII.

The application does not meet the requirements of Article 6 PCT, because claims 1 and 6 are neither concise nor clear.

1. Although claims 1 and 6 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought. The aforementioned claims therefore lack conciseness.

This lack of conciseness is reinforced by the fact that the controller of claim 1 and the security system of claim 6 make respective reference to each other.

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA98/00373

Hence, claims 1 and 6 do not meet the requirements of Article 6 PCT.

In order to overcome this objection, it would appear appropriate to file an amended set of claims defining the relevant subject-matter in terms of a single independent claim followed by dependent claims covering features which are merely optional (Rule 6.4 PCT).

In particular, claim 6 includes all the features of claim 1. Hence, claim 6 should be reformulated as a claim dependent on claim 1, cf. Rule 6(4)(a) PCT.

2. From the present wording of claim 1, and also considering the formulation of independent claim 6, it is not clear whether either the controller or the security system is comprised of the cited components such as the input means and the display means.

Further, it is also not entirely clear whether the security system referred to in line 9 of claim 1 is actually the same as the one mentioned already in line 2, or is an additional security system.

A similar objection applies to independent claim 6, not only with respect to the feature of the security system (cf. line 39 on page 1 of the newly filed claims), but also with respect to the feature of the external data access provider (lines 33/34 on page 1, and line 2 on page 2).

For the purpose of international preliminary examination, it has been assumed that these features occurring several times in independent claims 1 and 6 in combination with an indefinite article ("a") are the same.

3. The vague and imprecise statement in the description on page 12, lines 23-28 pertaining to the "spirit of the invention" implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, PCT/GL/3 III, 4.3a).

THE EMBODIMENTS IN THE INVENTION IN WHICH AN EXCLUSIVE
PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A controller for controlling the functions of
5 components of a security system comprising an input means
for inputting data in response to prompts, a display means
for displaying at least a number of alphanumeric
characters, the controller interacting with a control panel
to control operation of a security system, the controller
10 providing for display of user selectable information
provided to the control panel by an external data access
provider.
2. A controller as claimed in claim 1 wherein the user
15 selectable information is one or more items selected from
the group consisting of weather information, news reports,
sports information, and financial information.
3. A controller as claimed in claim 2 wherein the
20 controller also provides for control of home automation
functions.
4. A controller as claimed in claim 3 wherein the display
means is a LCD or LED display capable of displaying
25 graphical data.
5. A controller as claimed in claim 4 wherein the display
is a touch sensitive screen to provide the input means as
well as the display means.
- 30 6. A security system comprising a plurality of detection
devices and a controller connected to a control panel, the
control panel having a means for connecting to an external
data access provider for providing user selectable
35 information, the controller having an input means for
inputting data in response to prompts, a display means for
displaying at least a number of alphanumeric characters,
the controller interacting with the control panel to
control operation of a security system and displaying the

AMENDED SHEET

user selectable information provided to the control panel
by an external data access provider.

7. A security system as claimed in claim 6 wherein the
5 user selectable information is one or more items selected
from the group consisting of weather information, news
reports, sports information, and financial information.

8. A security system as claimed in claim 7 wherein the
10 controller also provides for control of home automation
functions.

9. A security system as claimed in claim 8 wherein the
display means is a LCD or LED display capable of displaying
15 graphical data.

10. A security system as claimed in claim 9 wherein the
display is a touch sensitive screen to provide the input
means as well as the display means.

20

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